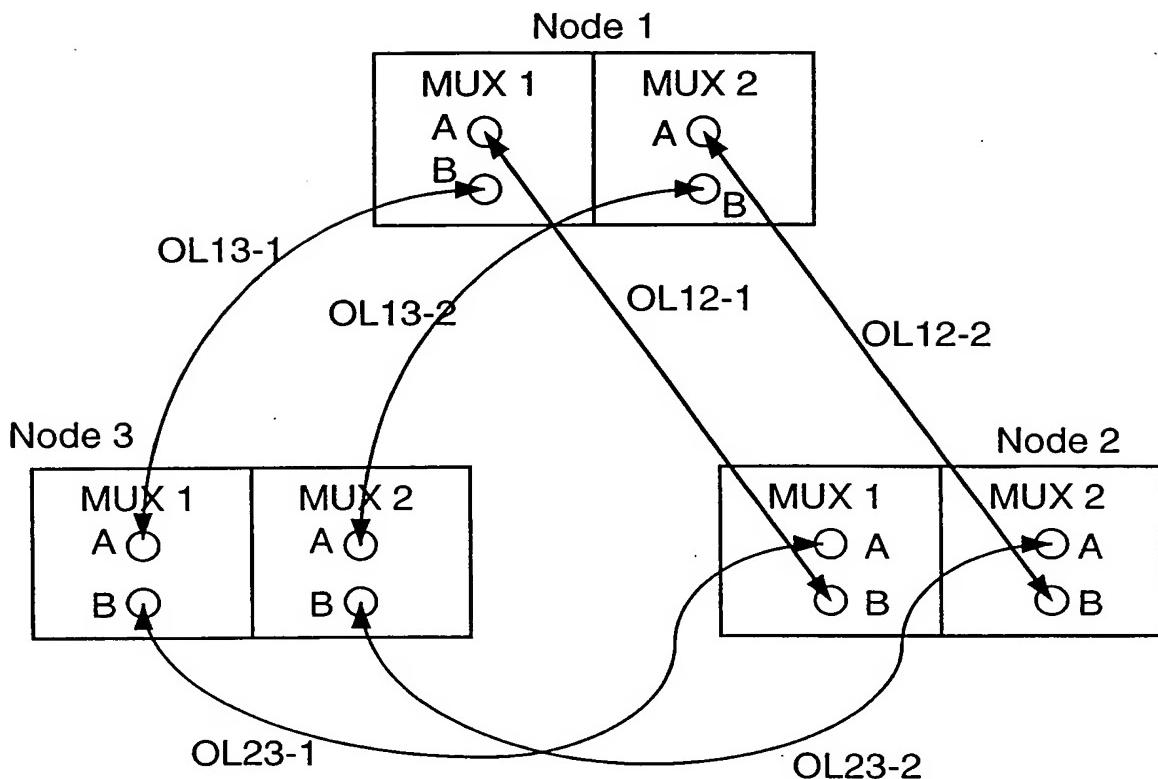
**FIG. 1**



Physical signal paths from Node 1 to Node 2:

OL12-1;
 OL12-2;
 OL13-1, OL23-1;
 OL13-2, OL23-2;

FIG. 2

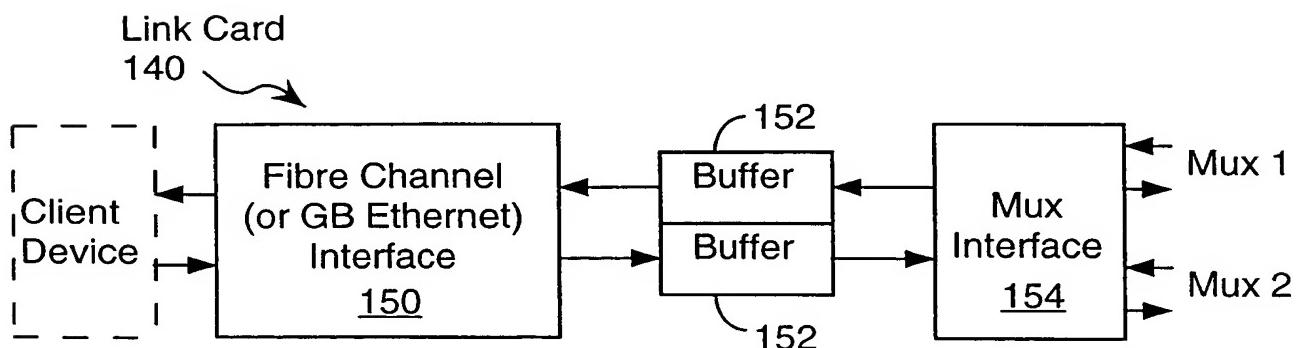


FIG. 4

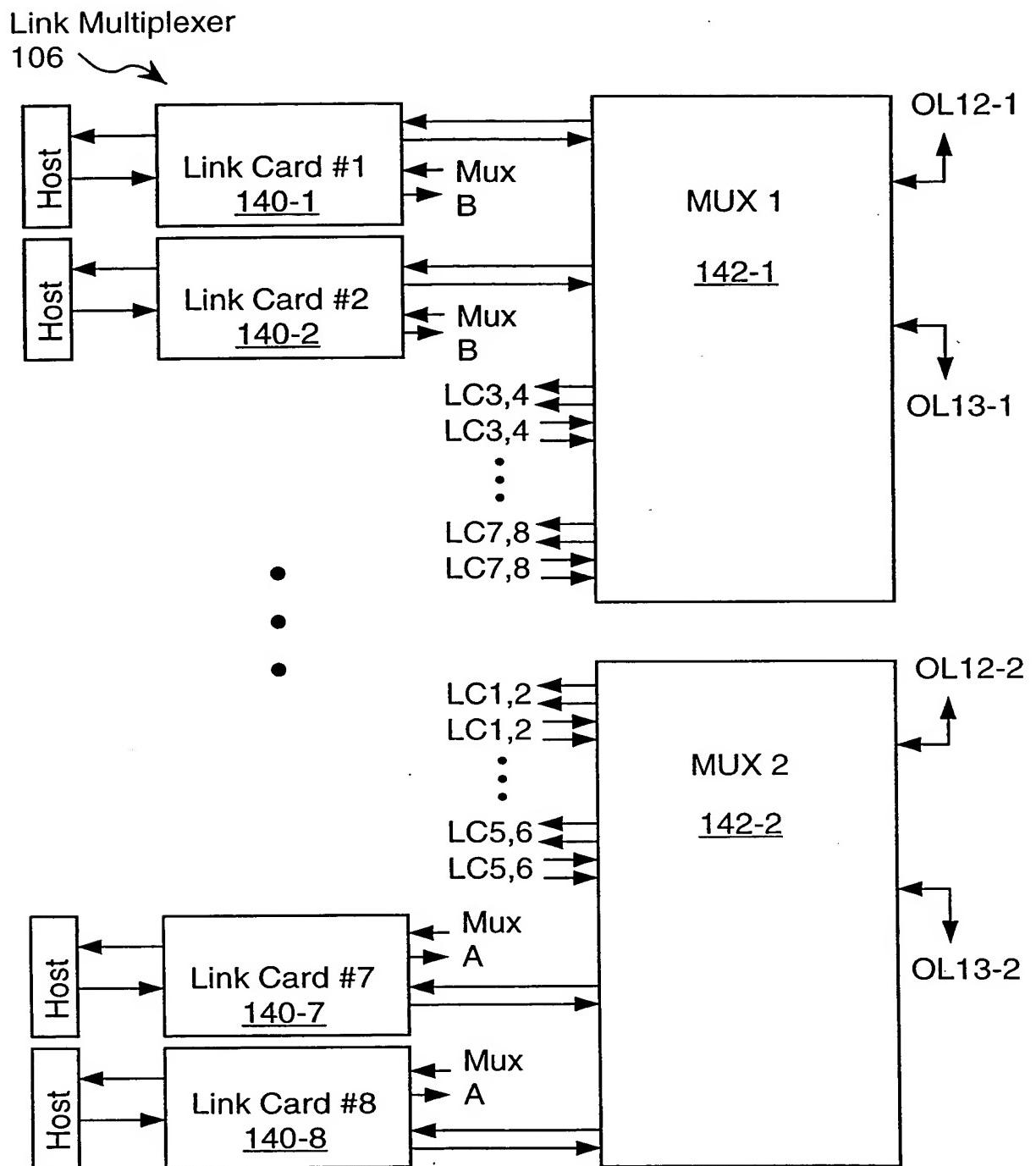


FIG. 3

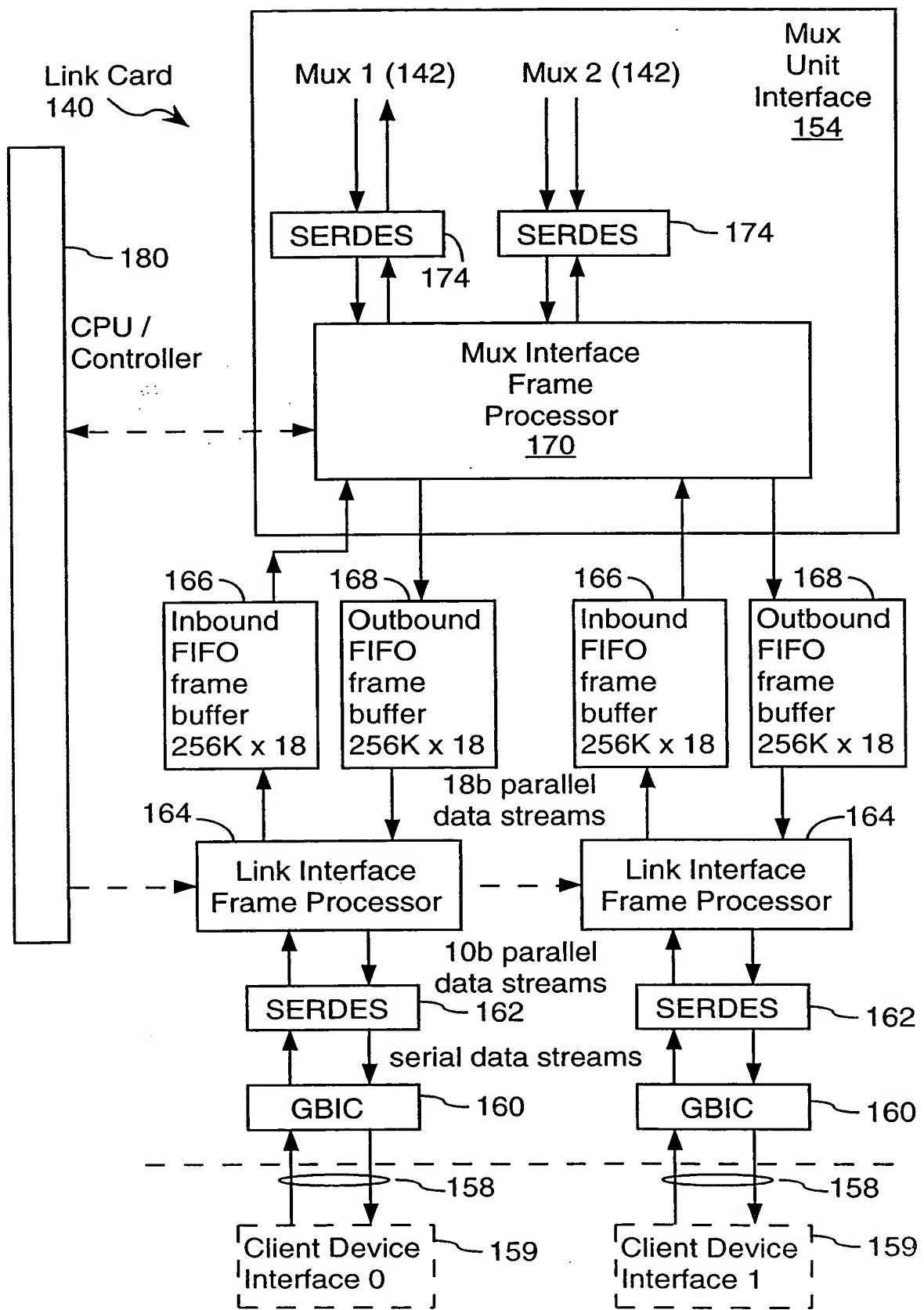
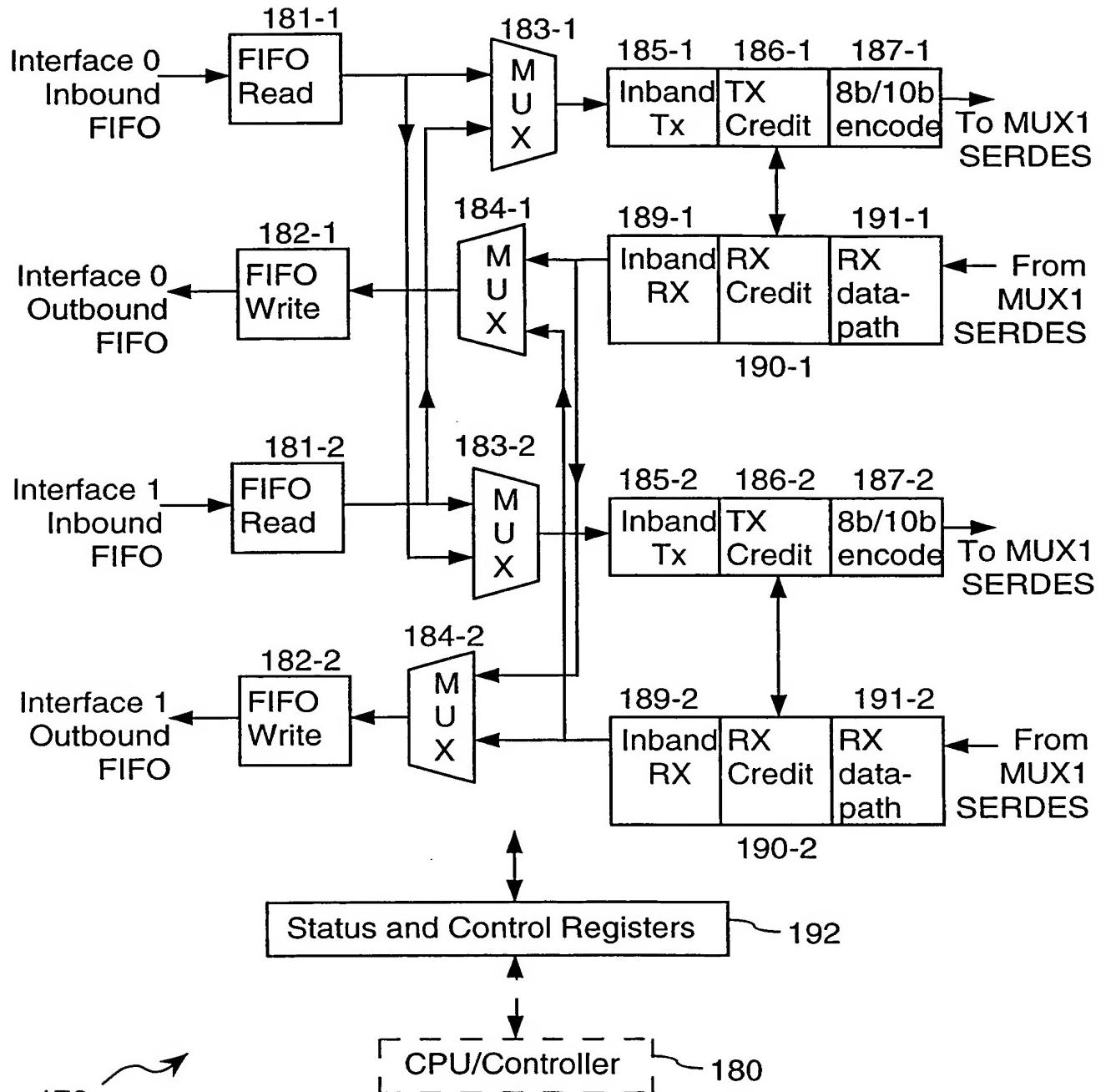


FIG. 5

**FIG. 6**

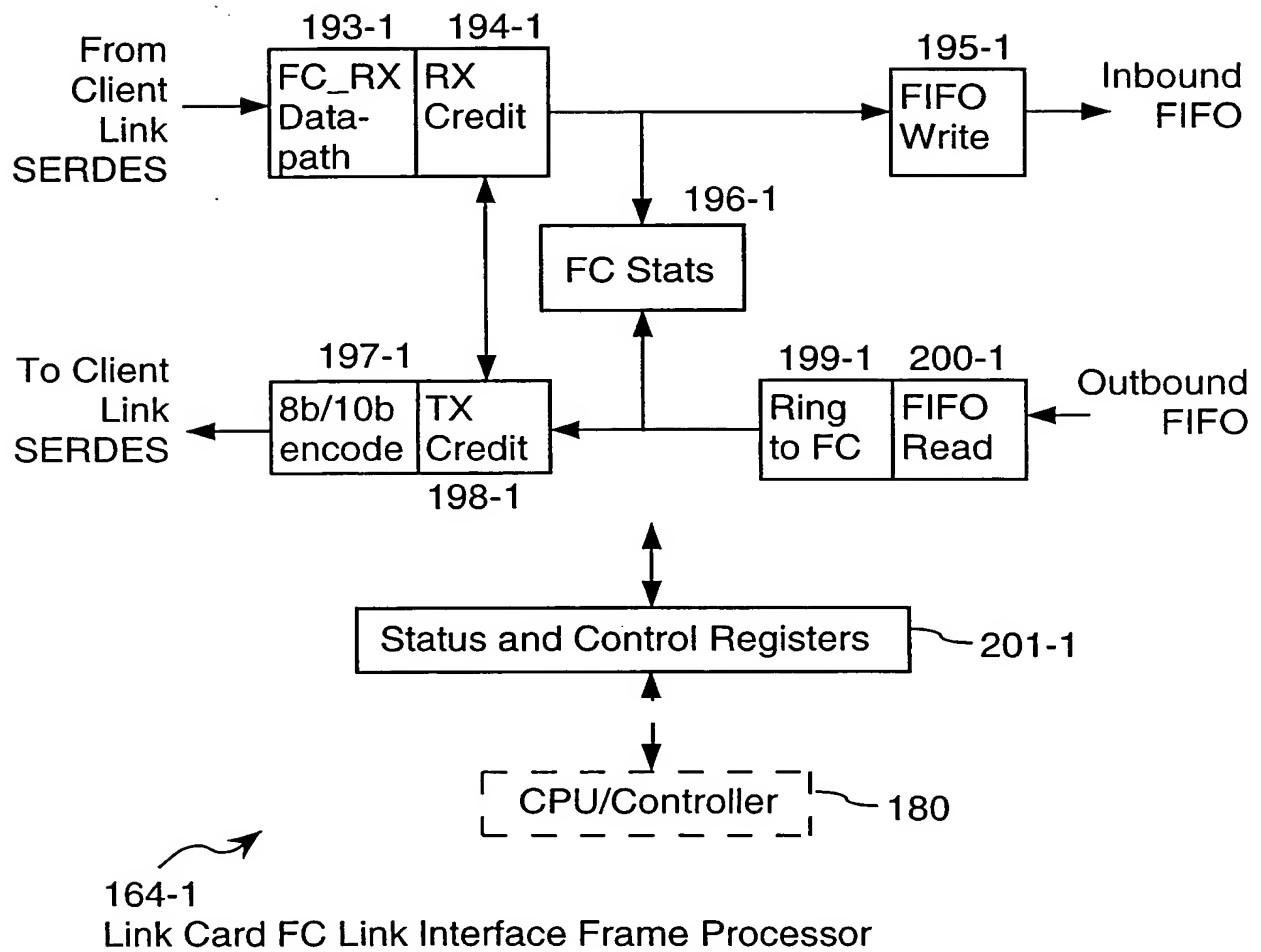
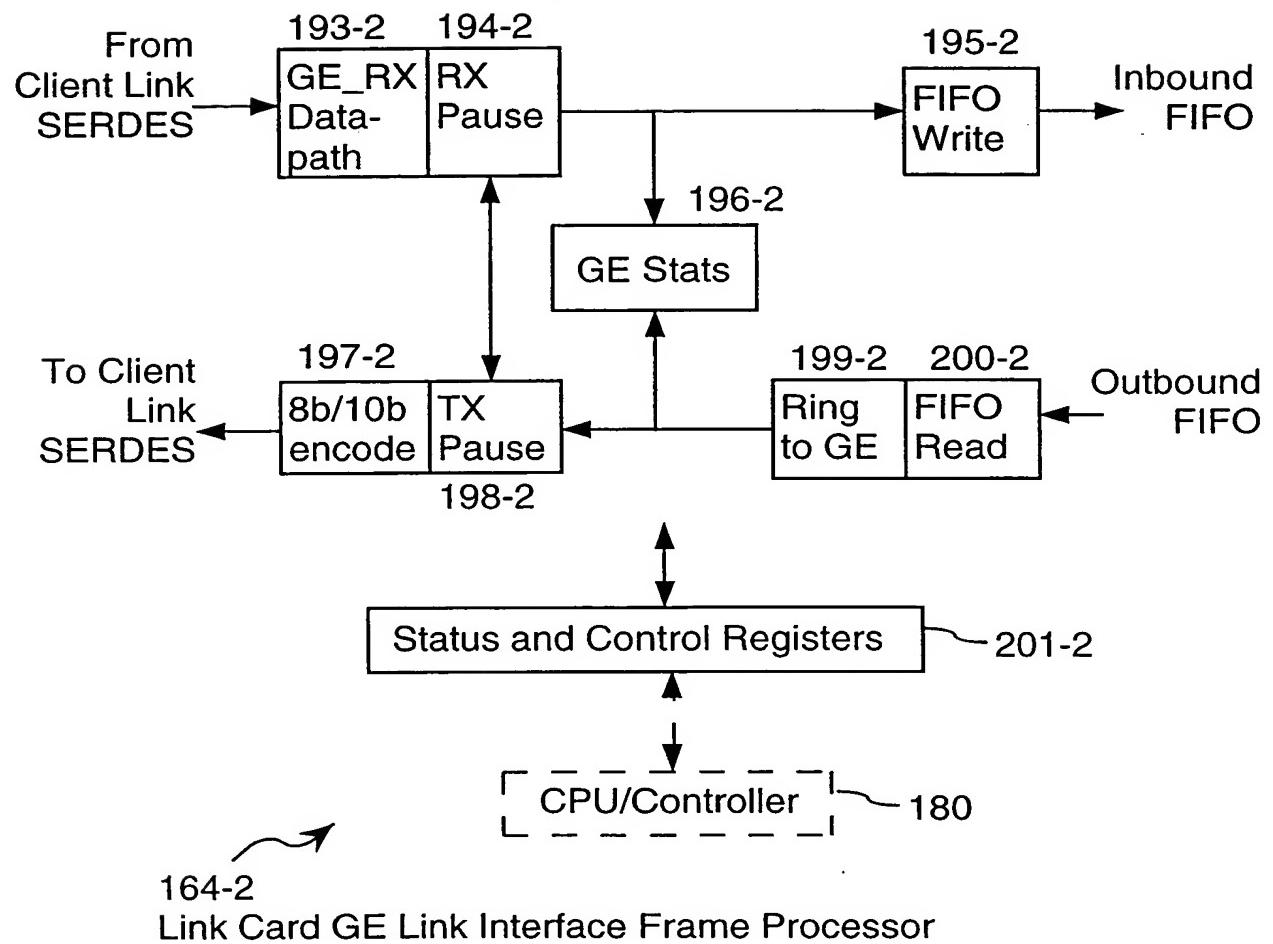


FIG. 7

**FIG. 8**

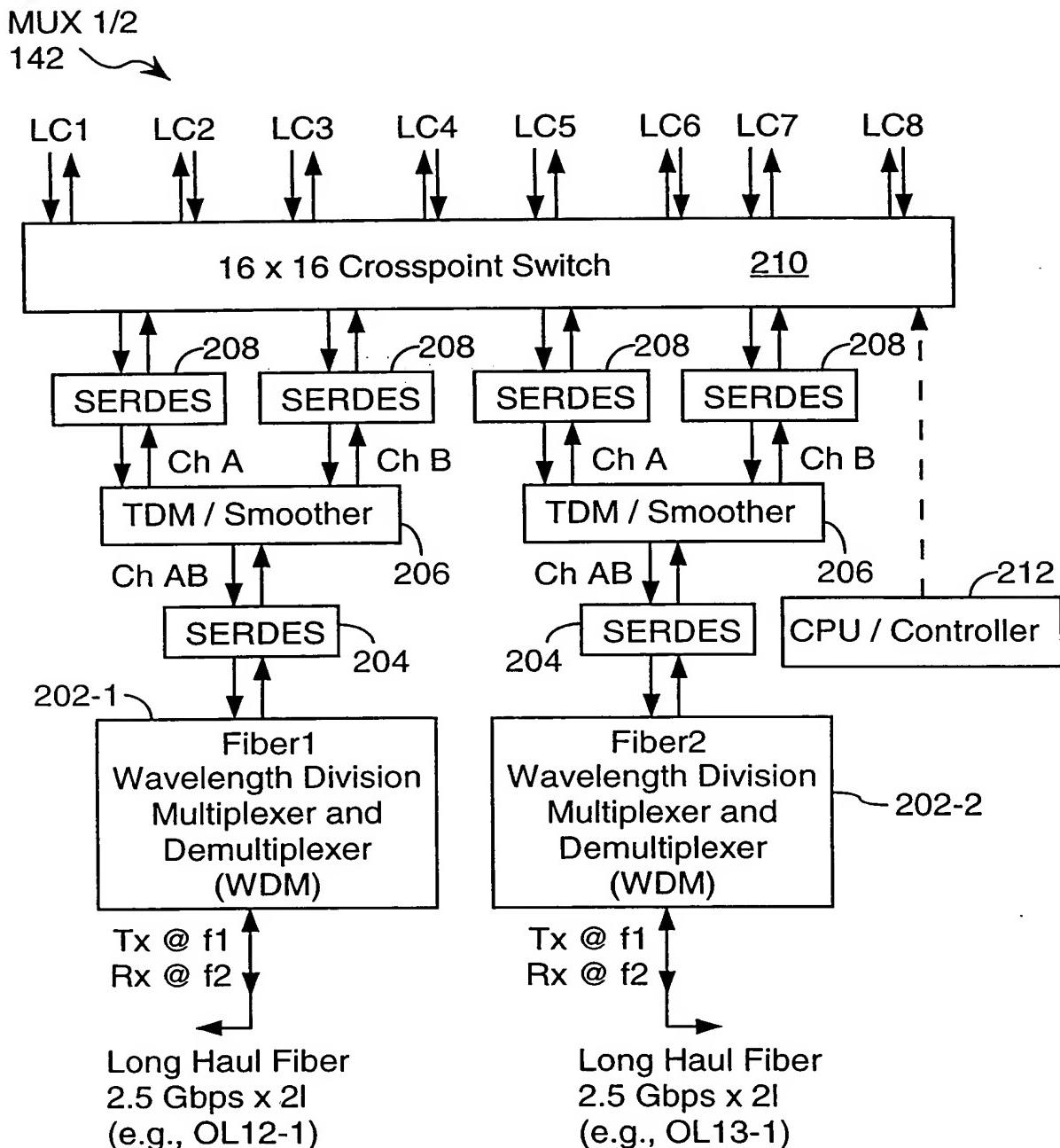


FIG. 9

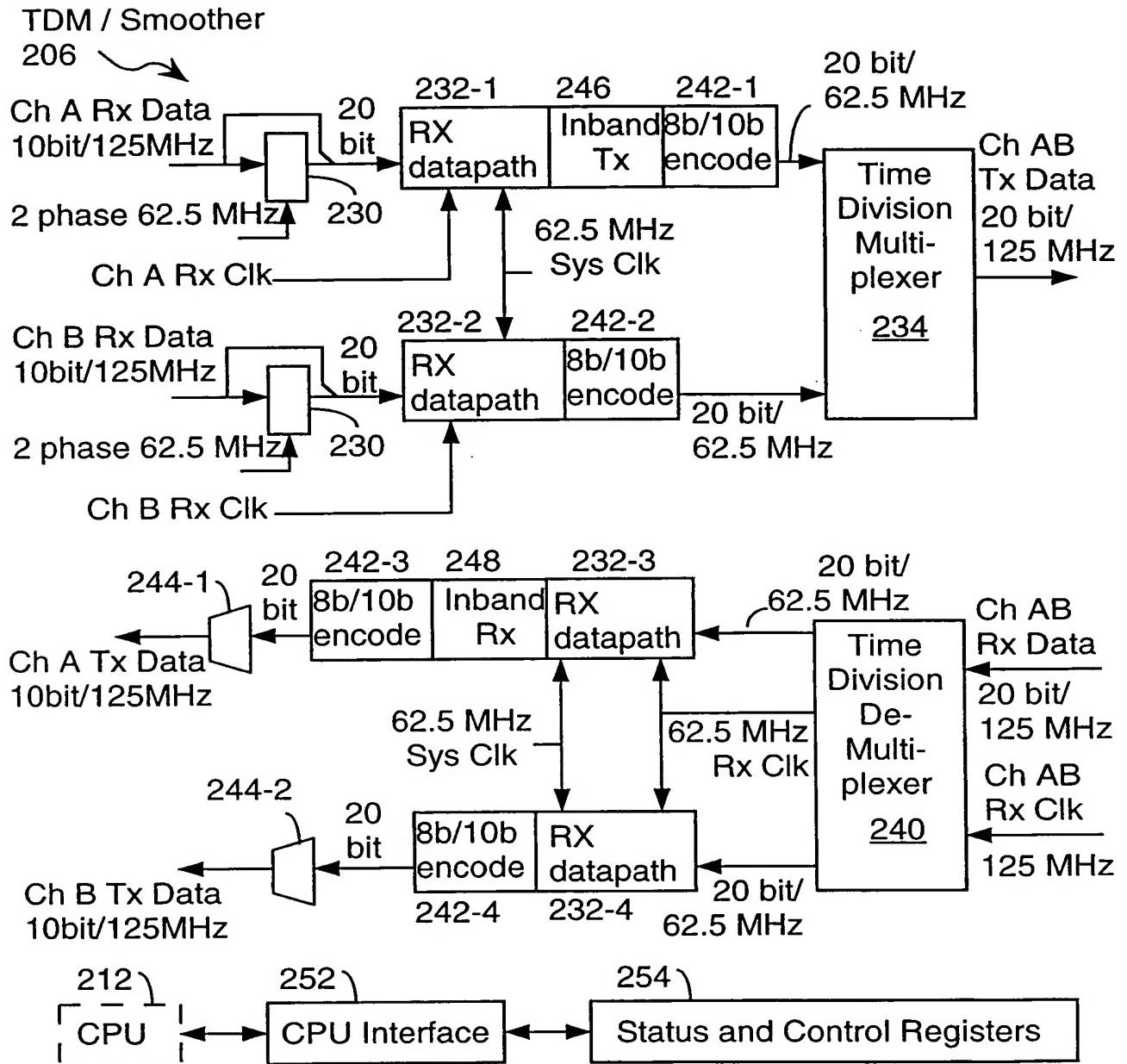


FIG. 10

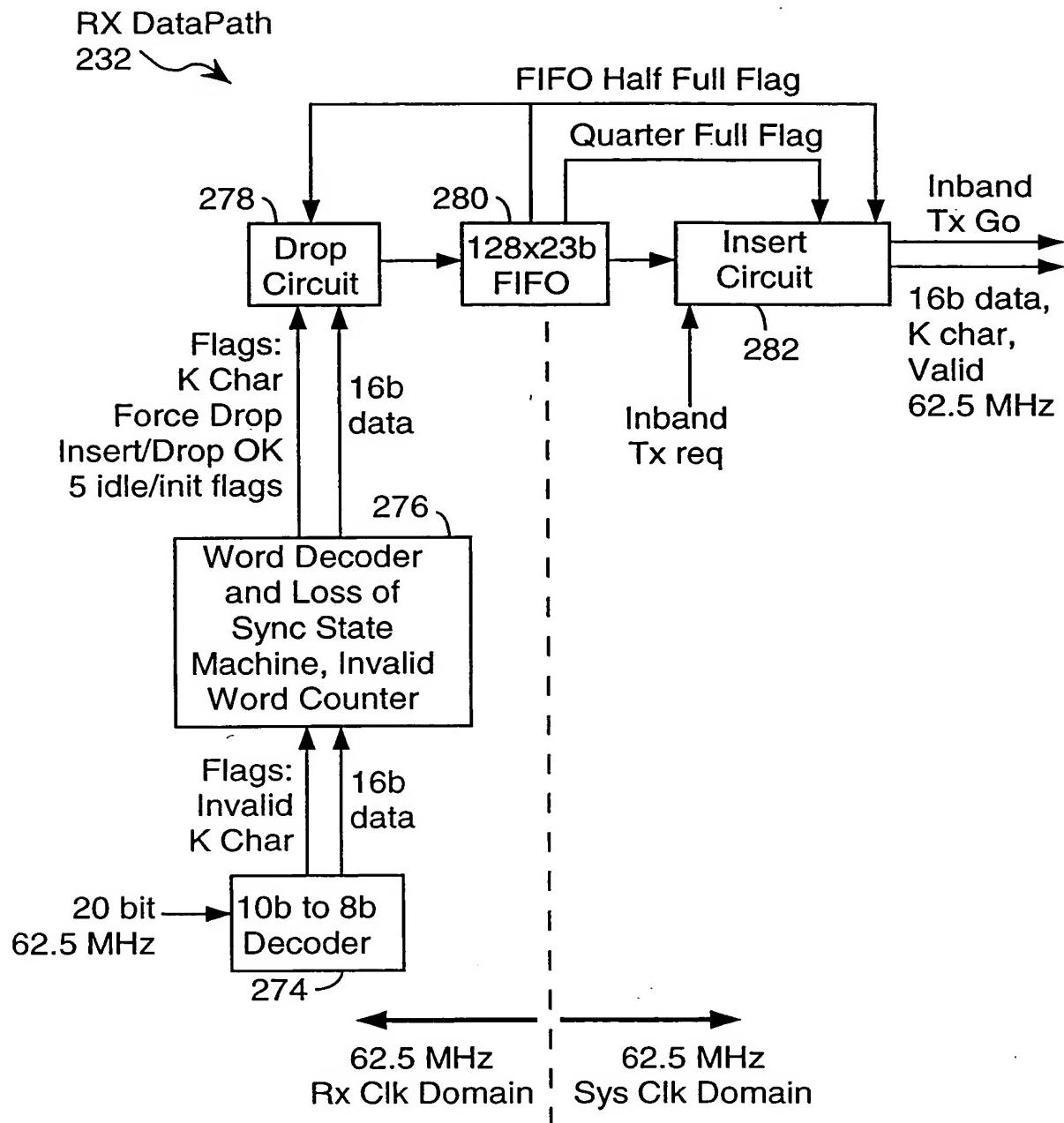
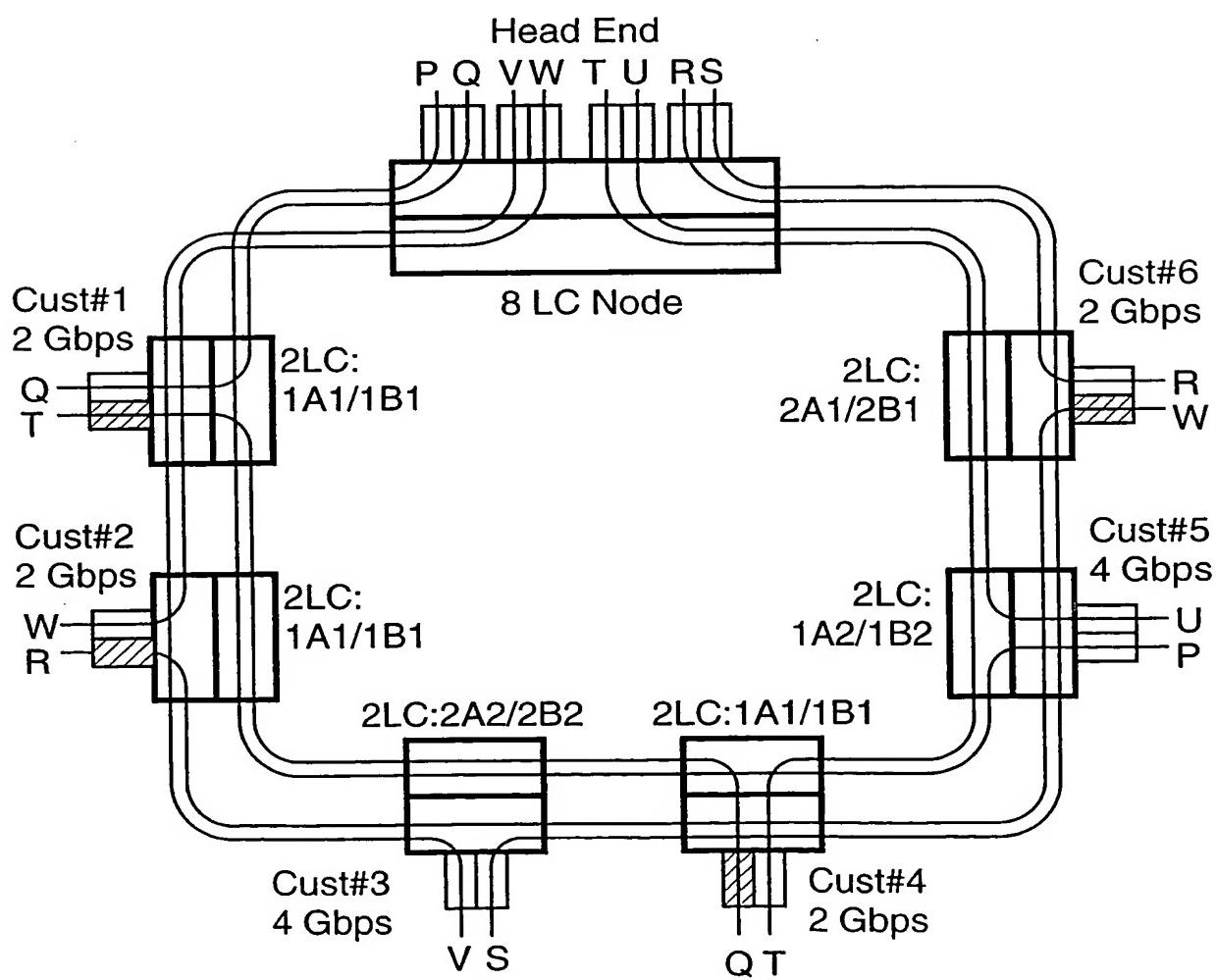
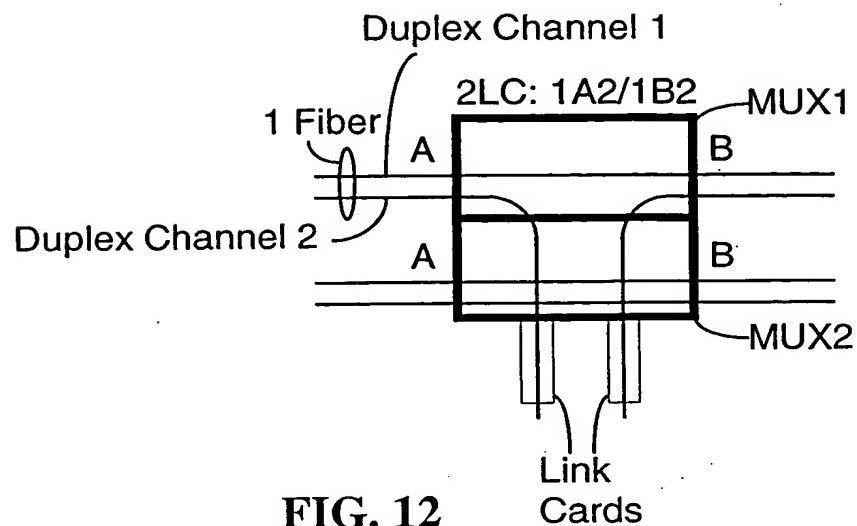
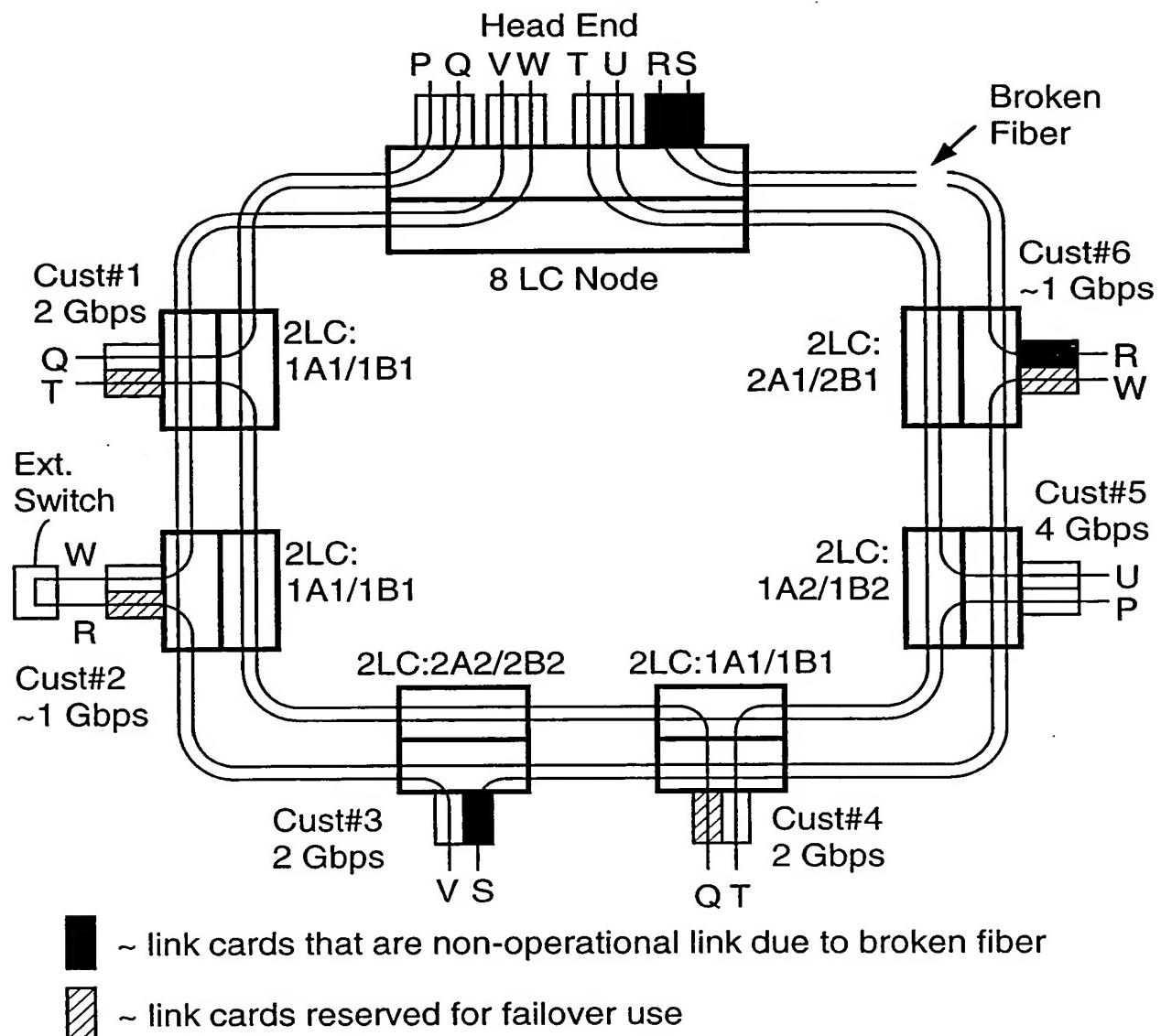


FIG. 11



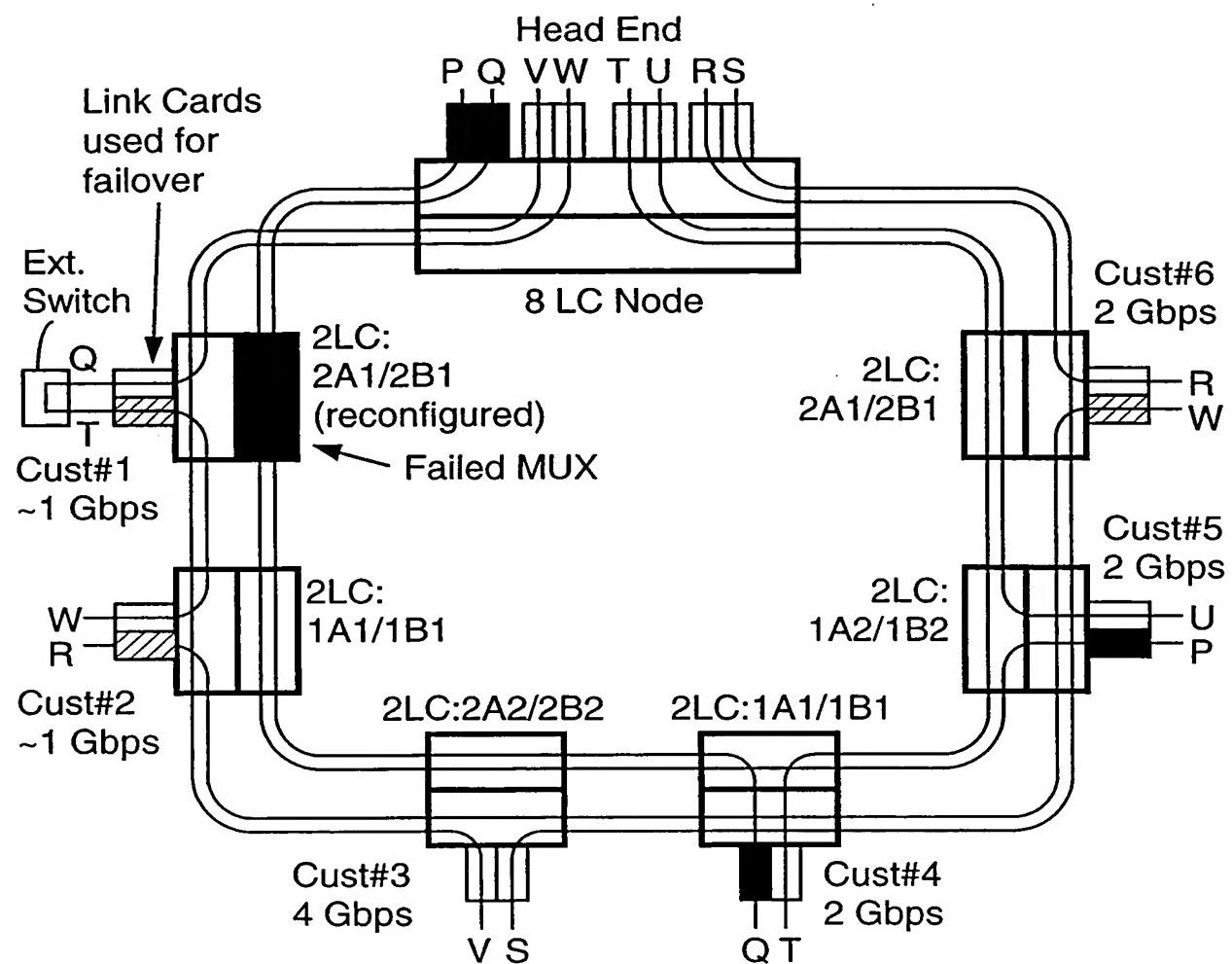
Exemplary Optical Communication System Deployment

FIG. 13



Broken Fiber Failover

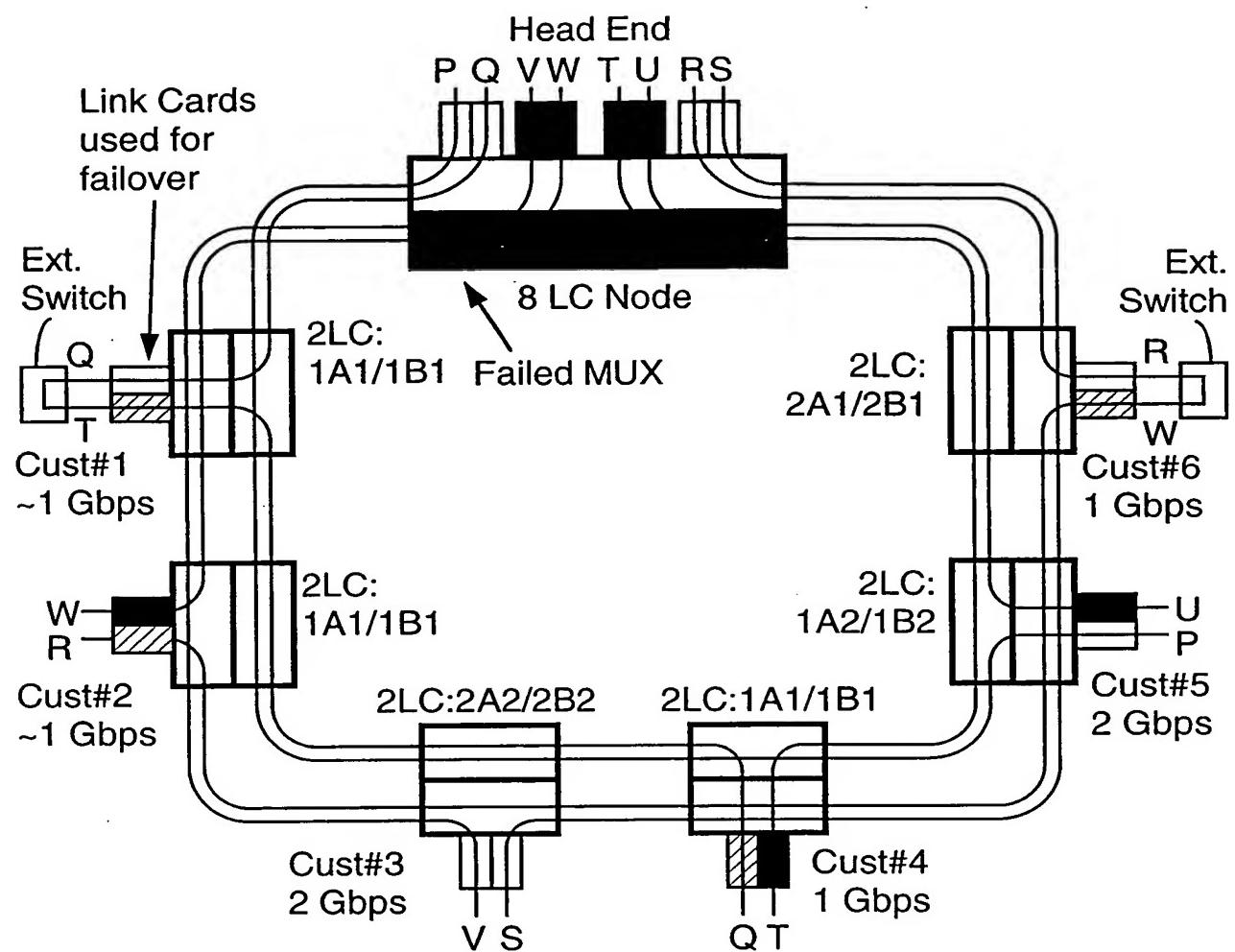
FIG. 14



- █ ~ link cards that are non-operational link due to Mux failure
- ▨ ~ link cards reserved for failover use

Failed Customer MUX Failover

FIG. 15



Failed Head End MUX Failover

FIG. 16

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